MA 124436



TECHNICAL REPORT 3

TYPES AND RATES OF OUTPATIENT SICKCALL VISITS

JUNE 1980 - MAY 1981

COMBAT ARMS AND SUPPORT TROOPS



Market Ole

REPORT DOC	UMENTATION PAGE	READ INSTRUCTIONS BEFORE COMPLETING FORM		
1. REPORT NUMBER		J. RECIPIENT'S CATALOG HUMBER		
	AD-A424	H436		
4. TITLE (and Subtitle)		S. TYPE OF REPORT & PERIOD COVERED		
THE HEALTH CONSEQUENCES	OF DEPLOYMENT TECHNICAL	INTERIM		
	TES OF OUTPATIENT SICKCALL	June 1980 - May 1981		
VISITS JUNE 1980-MAY 19	81 COMBAT ARMS TROOPS AND	6. PERFORMING ORG. REPORT NUMBER		
SUPPORT TROOPS 7. AUTHOR(a)		8. CONTRACT OR GRANT NUMBER(a)		
ď	SW and Joseph M. Rothberg.			
Ph.D.	w and Joseph M. Rothberg,			
9. PERFORMING ORGANIZATION N. Division of Neuropsychi		10. PRUGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS		
Department of Military				
WRAIR, WRAMC, Washingto		62771A 3E 162771A804 00 047		
11. CONTROLLING OFFICE NAME A	ND ADDRESS	12. REPORT DATE		
US Army Medical Researc	ch and Development Command	ó December 1982		
Ft Detrick, MD 21701		13. NUMBER OF PAGES		
14 MONITORING AGENCY NAME A	ADDRESS(If different from Controlling Office)	15. SECURITY CLASS, (of this report)		
<u> </u>		io. Seconi, i censs. (or and report)		
Walter Reed Army Instit Washington, DC 20012	tute of kesearch	UNCLASSIFIED		
washington, be 20012		154. DECLASSIFICATION/DOWNGRADING SCHEDULE		
16. DISTRIBUTION STATEMENT (of	this Report)	;		
Approve for public	release. Distribution unlin	nited.		
17. DISTRIBUTION STATEMENT (of	the abstract entered in Block 20, if different fro	om Report)		
18. SUPPLEMENTARY NOTES				
19. KEY WORDS (Continue on reverse	elds if necessary and identify by block number	,		
Health	Stress (medical)	Airborne		
		Symptoms		
-		Demography		
	Medical statistics			
	Registry ship if necessary and trievelly by block number)			
		1981 for soldiers and their		
family members in 17 hi	.ghly stressed combat arms (a	irborne) and 5 less stressed		
support companies wer	'ollected and linked to the	sponsor's personnel data as		
	sequences of Deployment" stu			
	eristics and attributes of t	he soldiers-at-risk, ratio or visit categories, the most		
common presenting probl	ems and the presenting probl	em rate ratios. Appendices		
	ided in the major categories	rase rastos. Whlemarces		

The Health Consequences of Deployment,

Technical Report 3:

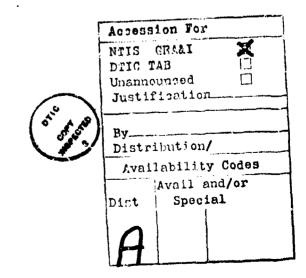
Types and Rates of Outpatient Sickcall Visits

June 1980 - May 1981

Combat Arms Troops and Support Troops

CPT Linda K. Jellen, MSW Joseph M. Rothberg, Ph.D.

6 December 1982



INTRODUCTION

The findings in this report describe the June 1980 through May 1981 outpatient sickcall visits gathered for the active duty sample in the "Health Consequences of Deployment Study" (1) in terms of differences between the combat arms soldiers and support soldiers. Other technical reports based on this study are listed in Appendix A.

The combat and support groups are different in several ways. They were picked for the vast differences in their military duties. The combat soldiers spent much more time in rigorous physical training such as field exercises and road marches. They are all paratroopers who must jump at least once every 90 days and frequently do so much more often. They are periodically on alert to be able to deploy within 48 hours. The support soldiers have essentially sedentary jobs. Their morning physical training (PT) is generally warm-up exercises and a rur three times a week. These differences allow us to highlight the medical problems related to highly stressed soldiers.

The clinics providing first line care to these two groups were also different. The combat arms unit had Battalion Aid Stations (BAS) to provide medical care to each battalion (approximately 660 soldiers each) and a Troop medical Clinic (TMC) which provided care to the two headquarters units (as well as other non sample units). The support units received their medical care at two TMC's which served approximately 2100

soldiers, only a fraction of whom were in the sample population. The completeness and availability of sick call sign-in logs and medical records was better at the combat soldiers' BAS than the support soldiers TMC.

There are seventeen combat arms units which make up one brigade in our sample; this includes three battalions of five companies each plus a brigade headquarters and an anti-tank company. The five support companies are from a different, and higher level, support command and include finance, data processing, personnel, administration, and parachute rigging companies.

The everage strength for the year was 2,195 for the combat units and 743 for the support units. There were some relative demographic differences between these two groups. Table 1, based on a midyear (November 1980) personnel tape, shows that there were more 51 thru E4's in the combat arms units than the support units. The combat arms units had no females while the support units were about one sixth female. There were more caucasians in the combat arms units and more of the combat soldiers were single. More combat soldiers had no PULHES profiles (medical limitations on military assignments) compared to support soldiers. The mean age is younger for combat soldiers than for support soldiers. The combat soldiers' mean number of months on post is also greater. In summary the combat soldiers were primarily younger, had less rank, fewer were

married, all were male, more were caucasian, more had no permanent profiles and more had been stationed at the post longer.

The data in this report will be discussed in terms of the total number of outpatient sickcall visits and the annual rates of visits (per 100 strength). The findings will be displayed at several different levels of aggregation. The Category of Visits is a classification of the presenting problem into different modules as set forth in the Public Health Service's "A Reason for Visit Classification for Ambulatory Care (C2) which was used to code the visits in this study. Several of these modules represent visits for symptoms or diseases of the various body systems such as the respiratory or digestive system. Other modules represent specific types of visits regardless of body systems . For example, this classification places visits for family planning, PAP smears or pregnancy tests in the Diagnostic/Screening/Prevention Module rather than the Genito-Urinary Module. Some of the other modules (and non-inclusive examples of the types of visits they represent) are as follows: The Injury module represents injuries of all types (cuts, burns, etc.) to all parts of the body. The . Diagnostic/Screening/Prevention module includes visits for a general modical check-up, various blood tests, blood pressure checks, hearing tests, pregnancy tests, PAP smears and family planning. The Treatment module includes visits for cast and

suture care and bandage changes. The Administrative module includes visits made at the request of a third party, such as command psychiatric exams or annual physical exams.

In order to be sure the most frequent individual reasons for visits are not overlooked in the various modules, individual presenting problems will also be arrayed according to the frequency of their occurrence. The specific presenting problem represents the reason for the visit provided by the patient as indicated in various clinics' sign-in log. "Complaint Not Given" was used when the reason for the visit was not indicated in the sign-in log.

Injuries and the resulting visits represent a very large fraction of the health care delivered to this population. Based on this, we created a classification to summarize the visits into three major groups: Muscular/Skeletal Complaints and Injuries (M/S & I), Other Disease and Symptoms (O D/S), and Other visits (O). The O D/S Category represents (non-injury) Illness, Visits and the O Category is a catch-all for other visits, such as Diagnostic/Screening/Prevention, Administrative, or Uncodable. Appendix B lists the specific categories included in each of these major groups. The background and general methodology for this report is found in Technical Report 1, The Health Consequences of Deployment: The Data Gathering System*(3).

The relative risk ratio used to compare categories of visits was computed as the combat soldiers annual rate of visits

per 100 strength divided by the support soldiers rate of visits per 100 strength. Significance was tested at the .05 level with the Z-score derived from the standard error of the mean.

Findings and Discussion

The combat soldiers had an annual sickcall rate that was almost half again higher than the support soldiers (483/100 versus 329/100). This ratio was somewhat reduced (from 1.47 to 1.34) when the rates for combat and support soldiers were calculated only for those dates when the combat soldiers were on the most comparable (i.e., support) phase of their readiness cycle (see Technical Report 5 for an extended discussion of the relation of the activity of combat soldiers and their outpatient ... sickcell rates). There were also differences of the rates in most of the categories of visits modules as shown in Table 2. The only modules that were not different were General Symptoms, Nervous System, Ear and Eye, Genito-Urinary and Test Results. As indicated by the relative risk column the combat soldiers are almost three times as likely to have Skin, Heir and Nail problems, more than twice as likely to have Injury visits, and almost twice as likely to have Mental Health visits, Diagnostic/ Screening/Prevention visits, and Treatment visits. In the following paragraphs, we will consider these five modules in turn.

In the Skin, Hair and Nail module, the annual Pate was

58.2/100 strength for the combat scidiers and 21.3/100 for the support soldiers. The specific skin, hair and nail presenting problems shown in Table 3, differed between combat and support soldiers with the exception of ingrown nails and other nail problems and symptoms. The most notable differences were for blisters, skin infections, rashes and poison by or oak. These differences are consistent with the amount of time that the combat soldiers spend marching, running and in field training exercises (FTX) (See Technical Report 5: "Impact of Activity and Transitional states on Combat Arms Soldiers Outpatient Sickcall Retes").

In the Injury module, the annual sickcell visit rate was 81.6/100 strength for the combat soldiers and 33.0/100 strength for the support soldiers. A one week sample of injury visits for the combat soldiers at the BAS's indicated that the majority of injuries occurred in three situations: field exercises, parachute jumps, or athletic physical training (See Technical Report 4: "Additional Survey of Injury of Combat Soldiers").

The support soldiers have lower exposure to situations with high risks of injury. They have virtually no field duty, the majority are not in airborne units (only the perschute rigging company is airborne), and generally do not have football games for their organized PT. Table 4 shows the specific presenting problems for injury visits. All of these categories were different with the exception of Unspecified and Multiple

Injuries. The combat soldiers had more than five times the risk for insect bites, which most likely reflects the large amount of time they spent in the field. They were at twice the risk for injury to all body parts (extremities, trunk, etc.) as well as in the Accidents and Injuries category. This category includes auto accidents, fights, falling down stairs, overdoses, etc.

In the Mental Health module, the annual rate was 5.6/100 strength for combat soldiers and 2.8/100 for support soldiers. as seen in Table 2. As mentioned in the methodology section, this included only visits that received a mental health code and does not include all visits made to the mental health clinics. Table 5 shows the rates for mental health problems for visits that received mental health codes as well as all other visits to the mental health clinic. When we counted all visits to the Mental Health Clinic (including those that the RVC code book did not designate as a mental health problem), the number of visits for soldiers increased from 122 to 234, and for support troops it increased fr 21 to 59. The three types of visits to the mental health clincs that were not coded as mental health presenting problems are shown as the last three categories in Table 5. Command ordered psychiatric evaluation for schools such as sniper school (the majority of such evaluations) or drill sergeant school or for a discharge increased the combat soldiers visits by 61 and the support visits by seven. The "Other" Mental Health clinic visits category included visits for

heedaches and high blood pressure, for example, which evidently had been referred from other medical clinics. This type of visit increased the combat visits by 32 and the support soldiers visits by 19. The use of "no complaint given" indicated that a visit to a mental health clinic was made but a presenting problem was not recorded and He were unable to ascertain the reason for the visit. There were 19 such visits for combat soldiers and 12 for support. This increased the annual rates to 10.7/100 for combat soldiers and 7.9/100 for support soldiers. These were still significantly different at the .05 level. The relative risk ratio was lowered to 1.35 from 1.97.

The relative risk ratio for marital or family problems was only slightly less than one. This may be accounted for by the fact that more of the support soldiers were married and more had one or more dependents.

There were very few visits for anxiety, depression, identity or behavior problems or other personality disorders for the support soldiers (2 visits) and quite a number for the combat soldiers (51 visits). There are several possible variables that may influence these differences in mental health problems. First, the combat units have more younger, first term soldiers who could still be experiencing some situational adjustment stress. Second, being a paratrooper in an elite combat arms unit that works hard, plays hard, has frequent deployments and has some inherent dangers in its mission may

cause increased stress among its' soldiers which results in increased mental health problems. Third, these two groups received most of their mental health care at different clinics; perhaps there are differences in the use of various presenting problems in the records at these clinics.

Because of the importance of mental health to the evaluation of health and stress, a separate technical report (Technical Report 9, "Characterization of Active Duty and Family Members Who Make Mental Health Visits") will explore this area in depth. That report will include a registry of individuals and families with mental health visits which will examine the demographics and the relationship between mental health visits and other health visits.

The annual rates for Diagnostic/Creening/Prevention module visits was 41.4/100 strength for combat troops and 21.3/100 strength for support troops. The greatest difference in specific presenting problem between these two groups of soldiers was for eye exams, general medical exams and x-ray. The rates for Treatment module visits were 19.9/100 strength and 10.1/100 respectively. The differences in visits were primarily in the categories of sutures, cast and bandages as well as dental visits. Some of these differences in visits ofr both chese modules may represent differences in the health care management system, i.e., better recordkeeping in BAS than the TMC. Others are inter-related, such as large numbers of injuries and large

numbers of treatment visits for casts and large numbers of diagnostic visits for x-rays, etc. Some, such as eye exams and dental visits, may indicate more command emphasis on prevention in the combat units.

The six most frequent specific present specificing problems which account for about 25% of the visits for combat soldiers are knee symptoms, head cold, skin rash, foot symptoms, throat symptoms, and ankle symptoms. For the support soldiers, the four most frequent presenting problem entries which account for about 25% of the visits are no complaint given, throat symptom, foot symptom and back symptom.

A rank ordered listing of the top 20 presenting problems for combat and support soldiers may be found in Table 6 and Table 7. By inspection of these tables, it appears that combat and support soldiers have different presenting problems. To quantify these differences, the ratio of the outpatient sickcall rates (combat rate divided by support rate) was computed for all presenting problems which had 5 or more visits by support soldiers. The 10 largest and 10 smallest values of this ratio are seen as table 8. The effects of combat training appear as the high ratio problems and the effects of having females in the support units show up as the low ratio problems. Diarrhea is the only high ratio individual presenting problem which did not come from one of the high risk modules discussed above.

Table 9 shows the demographic description of the sickcall

visitors for combat and support soldiers. This Table describes the attributes and characteristics as of the last visit per soldier and does not include multiple visits by a single individual. The comparison of the soldiers who had sick call visits with the estimated population at-risk was done for each of the characteristics and attributes. The values of the observed distributions from Table 9 were compared to the expected distributions derived from Table 1 using chi-square or z-score statistical tests and none of the characteristics or attributes were distributed differently in the sick call visitors compared to the population at-risk. Factors which are not currently different may become statistically significant when computed with the larger numbers from two years of data or when the exact population at-risk is used. Technical Report 7, "Demography, Unit Personnel Turnover and Outpatient Visits explores in depth the impact of various demographics on rates and types of visit.

FOOTNOTES

- 1."Illness Behavior and Transitional States: A Study of Outpatient Rates and Symptom Presentation in Relation to Troop Deployment During Peacetime," Linda K. Jellen, and Joseph M. Rothberg, WRAIR, Washington DC.
- 2. A Reason for Visit Classification for Ambulatory Care,D. Schneider, DHHS-PHS 79-1352, Washington DC, 1979.
- 3. The Health Consequenses of Deployment. PART I:

 Data Gathering. J.M. Rothberg and L.K. Jellen, Technical Report
 82-1, Dept Mil Psychiatry, WRAIR, Washington DC, 1982.

ACKNOWLEDGEMENT

The continuing efforts of Mr. Oldakowski as the project computer specialist are greatly appreciated. We also thank SP5 Harrington, SP4 Hodge, SP4 Kamoni and SP5 Rigney who have been responsible for the coding of the medical data througout this study and SP5 Helm for his assistance with generating these reports.

TABLE 1: DEMOGRAPHIC CHARACTERISTICS AND ATTRIBUTES OF COMBAT AND SUPPORT SOLDIERS PRESENT IN 22 UNITS DURING NOVEMBER 1980.

	COM	BAT	SU	PPORT
GRADE	n	(%)	n	(%)
OFFICERS	103	(5%)	21	(3%)
* E1-E4	1446	(68%)	431	(56%)
E5-E6	474	(22%)	267	(35%)
E?-E9	106	(5%)	50	(7%)
SEX		_		
FEMALE	0	0	151	(20X)
MALE	2129	- (100%)	618	(80%)
RACE				
CAUCASIAN	1499	(70%)	355	(46%)
NEGRO	468	(22%)	364	(47%)
OTHER	162	(8%)	50	(7%)
MARITAL STATUS				
SINGLE	1259	(59%)	340	(44%)
MARRIED	807	(38%)	326	(42%)
OTHER	63	(3%)	103	(13%)
EDUCATION				
NOT HIGH SCHOOL GRADUATE	291	(14%)	100	(13%)
HIGH SCHOOL GRADUATE	1608	(76%)	559	(73%)
BEYOND HIGH SCHOOL	230	(11%)	110	(14%)
PULHES				
111111	1645	(75%)	474	(62%)
NOT 111111	484	(23%)	295	(38%)
DEPENDENTS				
NONE	1285	(60%)	376	(49%)
ONE	310	(15%)	143	(19%)
TWO OR MORE	534	(25%)	250	(33%)
THO OR HORE	304	(23/1)		(30,0)
MEAN GT SCORE	1	8.90	10	6.4
(Standard Deviation)	((14.9)	(1	3.1)
MEAN AGE, YEAR		23.5		5.2
(Standard Deviation)		(4.9)	(5.7)
MEAN TIME AT POST, MONTHS		22.1	1	9.1
(Standard Deviation)	((19.1)		7.3)

TABLE 2: NUMBER AND ANNUAL RATE PER 100 OF OUTPATIENT SICKCALL VISITS JUNE 1980 - MAY 1981.

PRINCIPAL REASON	COM	BAT UNITS	RATIO	SUPPOR	T UNITS
FOR VISIT*	D	RATE/100	**	0	RATE/100
ALL VISITS	10597	482.8	1.47	2444	328.9
INJURY	1792	81.6	2.48	245	33.0
BODY SYSTERS					
MUSCULAR/SKELETAL	2507	144.2	1.55	549	73.9
GENERAL SYMPTOMS	393	17.9	.89	150	20.2
MENTAL HEALTH	122	5.6	1.97	21	2.8
NERVOUS SYSTEM	180	8.2	1.13	54	7.3
EYE & EAR	342	15.6	1.22	95	12.8
HEART & BLOOD	71	3.2	1.85	13	1.7
RESPIRATORY	1265	57.6	1.27	336	45.2
DIGESTIVE	555	25.3	1.38	136	18.3
GENITO-UNINARY	179	8.2	.87	70	9.4
SKIN HAIR &					
NAILS	1277	58.2	2.72	159	21.4
TEST RESULTS	22	1.0	. 93	8	1.1
TREATMENT	909	41.4	1.95	158	21.3
DIAGNOSTIC/SCREENING					
/PREVENTION	434	19.8	1.96	75	10.1
ADMINISTRATIVE	87	1.3	. 24	10	1.3
UNCODABLE & OTHER	462	21.0	. 43	365	49.1

^{*} See Appendix B for RVC codes in each category.

^{**} Relative risk ratio of rate in combat units divided by rate in support units.

TABLE 3: NUMBER AND ANNUAL RATE PER 100 FOR SKIN, HAIR AND NAIL VISITS, JUNE 1980 - MAY 1981.

TYPE OF VISIT*	COMBAT	UNITS	RATIO	SUPPO	ORT UNITS
	n	RATE/100	**		RATE/100
BLISTERS & OTHER LESIONS	131	6.0	8.57	5	.7
SKIN INFECTIONS (ACNE, BOILS ETC)	119	5.4	4.90	8	1.1
CALLUS & OTHER GROWTHS	182	8.3	2.59	24	3.2
POISON IVY, RASHES & OTHER SKIN IRRITATIONS	619	28.2	2.25	93	12.5
INGROWN NAILS & OTHER NAIL PROBLEMS	46	2.1	1.75	9	1.2
OTHER SYMPTOMS & DISEASES S,H, & N	80	3.6	1.33	20	2.7
MOLES & WARTS	100	4.6	***	0	0
TOTAL	1277	58.2	2.72	159	21.4

^{*} See Appendix C for RVC codes in each category.

^{**} Relative risk ratio of rate in combat units divided by rate in support units.

^{***} Denominator has less than 5 visits; relative risk not computed.

TABLE 4: NUMBER AND ANNUAL SICKCALL RATE PER 100 FOR INJURY VISITS. JUNE 1980 - MAY 1981.

TYPE OF INJURY*	COMBAT	UNITS	RATIO	SUPPORT	UNITS
	DR	ATE/100	**	nR	ATE/100
INSECT BITES	108	4.9	5.44	7	. 9
LOWER EXTREMITIES	622	28.3	2.57	82	11.0
TRUNK	109	-5.0	-2.50	1. 5	2.0
HEAD, FACE, NECK	230	10.5	2-28	- 34-	4.6
OTHER ACCIDENTS & INJURIES	195 -	5.9	2.23	30	4.0
UPPER EXTREMITIES	336	15.3	2.10	54	7.3
UNSPECIFIED OR MULTIPLE INJURIES	107	4.9	1.75	21	2.8
SPECIFIED JUMP INJURIES	83	3.9	***	2	. 3
TOTAL	1795	81.6	2,48	245	33.0

^{*} See Appendix D for RVC codes included in each category.

^{**} Relative risk ratio of rate in combat units divided by rate in support units.

^{***} Denominator has less than 5 visits; relative risk not Computed.

TABLE 5: NUMBER AND ANNUAL OUTPATIENT RATES PER 100 OF ALL MENTAL HEALTH VISITS AND VISITS TO MENTAL HEALTH CLINICS JUNE 1980 - MAY 1981.

TYPE OF VISIT*	COMBAT	UNITS	RATIO	SUPPORT	UNITS
		RATE/100	**	n_RA	TE/100
MARITAL/FAMILY	42	1.9	. 95	15	2.0
OCCUPATIONAL, SOCIAL					
ECONOMIC OR EDUCATION	22	1.0	***	3	.4
ANXIETY, DEPRESSION, AND SLEEP DISORDERS	20	0.9	* **	2	0.3
ANGER, INDENTITY, OR Behavioral problem	17	0.8	***	0	0
PERSONALITY DISORDERS AND OTHER PSYCHIATRIC SYMPTOMS	14	0.6	***	0	0
DRUG, ALCOHOL	7	0.3	***	t	0.1
ADMINISTRATIVE PSYCHIATRIC EXAM	61	2.8	3.11	7	0.9
OTHER REASONS	32	1.5	. 58	19	2.6
NO COMPLAINT GIVEN	1 9	0.9	. 56	12	1.6
TOTAL	324	10.7	1.35	59	7.9

^{*} See Appendix E for RVC codes in each category.

^{**} Relative risk ratio of rate in combat units divided by rate in support units.

^{***} Denominator has less than 5 visits; relative risk not computed.

TABLE 6: NUMBER AND ANNUAL SICKCALL VISIT RATE PER 100 OF THE MOST COMMON PRESENTING PROBLEMS: COMBAT SOLDIERS, JUNE 1980 - MAY 1981.

		<u> </u>	RATE/100
1.	KNEE SYMPTOMS	566	25.8
2.	HEAD COLD	533	24.3
3.	SKIN RASH	486	22.1
4.	FOOT SYMPTOMS	449	20.5
5.	THROAT SYMPTOMS	335	15.3
6.	ANKLE SYMPTOMS	288	13.1
7,	BACK SYMPTOMS	278	12.7
8.	NO COMPLAINT GIVEN	249	11.3
9.	EYE EXAMINATION	235	10.7
10.	FLU	192	8.7
11.	CONSULT TO DENTAL CLINIC	187	8.5
12.	LEG SYMPTOMS	182	8.3
13.	OTHER GROWTHS SKIN	182	8.3
14.	PROGRESS VISIT, NOS	170	7.7
15.	STOMACH PROBLEM	169	7.7
16.	LOW BACK SYMPTOM	156	7.1
17.	HEADACHE	150	6.8
18.	CONSULT UNSPECIFIED CLINIC	141	6.4
19.	SHOULDER SYMPTON	135	6.2
20	FOOT INJURY	134	6.1

TABLE 7: NUMBER AND ANNUAL SICKCALL VISIT RATE PER 100 OF THE 20 MOST COMMON PRESENTING PROBLEMS: SUPPORT SOLDIERS, JUNE 1980 - MAY 1981.

RANK	PRESENTING PROBLEM		RATE/100
1.	NO COMPLAINT GIVEN	289	38.9
2.	THROAT SYMPTOM	147	19.8
3.	FOOT SYMPTOM	134	18.0
4.	BACK SYMPTOM	99	13.3
٥.	HEAD COLD	90	12.1
6.	SKIN RASHES	80	10.8
7.	KNFE SYMPTOMS	66	8.9
8.	STOMACH PPOBLEMS	6.6	8.9
9.	FLU	63	8.5
10.	LEG SYMPTOMS	58	7.8
11.	ANKLE SYMPTOMS	52	7.0
12.	CHEST PAIN	48	6.5
13.	HAND SYMPTOMS	40	5.4
14.	PAIN, NO SPECIFIC SOURCE	37	5.0
15.	HEADACHE	、 35	4.7
16.	INADEQUATE INFORMATION	32	4.3
17.	PROGRESS VISIT	32	4.3
18.	TO SEE DOCTOR	32	4.3
19.	FOOT INJURY	30	4.0
20.	MEDICATION	29	3.9

TABLE 8: HIGHEST ANNUAL SICKCALL AND LOWEST ANNUAL SICKCALL
PRESENTING PROBLEM RATE RATION JUNE 1980 - MAY 1981.

PRESENTING PROBLEM	COMBAT VISITS	SUPPORT VISITS	RATE RATIO
UNCONFIRMED PRES	0	14	0
FAMILY PLANNING	0	5	0
CONSULT OB/GYN	0	13	0
VAGINAL BLEEDING	0	6	0
FEM REPRO SYSTEM PROB	0	11	0
COUNSELLING, NOS	16	32	C.17
TEST RESULTS, NOS	3	5	0.24
SYMP SKIN	5	7	0.24
GEN PSYCH EXAM	5	6	0.28
GEN_FEELING ILL	11	13	_ 0_29
CUTS U EXTREM	102	7	2.9
KNEE SYMP	566	66	2.9
KNEE INJ NOS	124	14	2.3
SHOULDER INJ NOS	46	5	3.1
SHOULDER SYM	235	14	3.3
FUNGUS INF	49	5	3.3
ANKLE INJ NOS	94	•	3.5
DIARRHEA	89	7	4.3
INSECT BITE	108	7	5.2
SKIN LESION	131	<u> </u>	8.2

^{*} Rate Ratio: Combat by support, not done for support under 5.

TABLE 9: DEMOGRAPHIC CHARACTERISTICS OF OUTPATIENT SICK CALL VISITORS FROM COMBAT AND SUPPORT UNITS, JUNE 1980 - MAY 1981, AS OF LAST VISIT PER SOLDIER.

	<u>cc</u>	MRAT	Su	PPORT_
GRADE				
OFFICERS .	83	(4%)	29	(5X)
E1-E4	1640	(69%)	390	(54X)
E5-E6	542	(23X)	237	(36X)
E7-E9	100	(4%)	37	(4X)
SEX				
FEHALE		0	147	(22X)
MALE	2365	(100%)	544	(78X)
RACE				
CAUC	1676	(71%)	329	(47X)
NEGRO	520	(25%)	328	(47X)
OTHER	169	(7%)	36	(5x)
MARITAL STATUS				
SINGLE	1424	(60%)	306	(44X)
MARRIED	878	(37%)	274	(42X)
OTHER	63	(3X)	73	(13X)
EDUCATION				
NOT HIGH SCHOOL GRADUATE	319	(13%)	87	(13X)
HIGH SCHOOL GRAUATE	1830	(77%)	503	(73X)
BEYOND HIGH SCHOOL	216	(10X)	103	(15×)
PHYSICAL PROFILE (PULHES)				
111111	1833	(78X)	435	(63%)
NOT 111111	532	(22X)	258	(37X)
DEPENDENTS				
NONE	1443	(61X)	337	(49X)
ONE	369	(16X)	132	(19X)
THO OR MORE	553	(23X)	224	(32X)
MEAN GT SCORE	•	107.1	1	06.7
(Standard Deviation)		(15.0)	(13.7)
MEAN AGE, YEARS		23.2		25.4
(Standard Deviation)		(4.7)		(5.5)
HEAN TIME AT POST, MONTHS		17.8		17.6
(Standard Deviation)		(19.9)		17.11

APPENDIX A: AREAS OF FUTURE REPORTS

The following are working titles of technical reports for which data is currently being analyzed:

- T1: The Health Consequences of Deployment. Part I: Data Gathering. Department of Hilitary Psychiatry, MRAIR, MASHINGTON DC. 20012. 1982.
- T2: Types and Rates of Outpatient Sickcall Visits of Active Duty and Their Family Members. Department of Hilitary Psychiatry, WRAIR, WASHINGTON DC. 20012. 1982.
- T3: Comparison of Outpatient Sickcall Visits for a Sample of Combat Arms and Support Soldiers.
- T4: Additional Survey of Injuries of Combat Soldiers.
- T5: Impact of Activity and Transitional States on Combat Arms Soldiers Outpatient Sickcall Rates.
- T6: Variation in Outpatient Sickcall Visits Among Matched Combat Arms Battalions.
- T7: Demography, Unit Personnel Turnover and Outpatient Visits.
- T&: Identification of Repeated Users of Health Care Resources
- T9: Characterization of Active Duty and Family Members Who Make Mental Health Visits.

APPENDIX B: REASON FOR VISIT CODES AND MODULES INCLUDED IN MAJOR SUMMARY CATEGORIES. INJURY J001-J999 Injuries and Adverse Effects Module MUSCULAR/SKELETAL 5900-5999 Symptoms Referrable to the Musculoskeletal System D900-D949 Diseases of the Muscloskeletal System and Connective Tissue GENERAL SYMPTOMS 5001-5099 General Symptoms MENTAL HEALTH 5100-5199 Symptoms Referable to Psychological amd Mental Disorders D300-D349 Mental Disorders T700-T799 Social Problem Counseling HERYOUS SYSTEM 5200-5259 Symptoms Referable to Nervous System (excluding sense organs) D350-D399 Diseases of the Nervous System EYE AND EAR 5300-5399 Symptoms Referable to the Eyes and Ears D400-D499 Disease of the Eye and Ear HEART AND BLOOD 5260-5299 Symptoms Referable to the Cardiovascular and Lymphatic System D250-D299 Disease of the Blood and Blood-Forming Organs HEART AND BLOOD (CONT) D500-D599 Disease of the Circulatory System RESPIRATORY 5400-5499 Symptoms Referrable to the Respiratory System

D600-D649

System

Diseases of the Respiratory

DIGESTIVE	S500-S639	Symptoms Referrable to the Digestive System
	D650-D699	Diseases of the Digestive System
	5640-5829	Symptoms Referable to the Genito-Urinary System
	D700-D799	Diseases of the Genito-Uninary System
SKIN, HAIR & NAILS	S830-S899	Symptoms Referrable to the Skin, Nails and Tair
	D800-D899	Diseases of the Skin and Subcutaneous Tissue
TEST RESULTS	R100-R700	Test Results Module
TREATMENT	T100-T699, T800-T899	Medications, Preoperative and Postoperative Care, Specific Types of Therapy, Specific Therapeutic Procedures, Medical Counseling, Progress Visit NEC
DIAGNOSTIC-SCREENING	X100-X599	Diagnostic, Screening and Preventive Module
ADMINISTRATIVE	A100-A140	Administrative Module
OTHER AND UNCODABLE	D001-D249	Infective and Parasitic Diseases, Neoplasms, and Endocrine, Nutritional and Metabolic Diseases.
	D950-D999	Congenital Anomalies, Peri- natal Morbidity and Motality Conditions
	U990-U999	Uncodable Entries Module

(M/S & I) MUSCULAR/ SKELETAL COMPLAINTS AND INJURIES	J001-J999	Injuries and Adverse Effects Module
	S900-S999	Symptoms Referrable to the Musculoskeletal System
•	D900-D949	Diseases of the Muscloskeletal System and Connective Tissue
(O D/S) OTHER DISEASES AND SYMPTOMS	S001-S899	Symptoms, NEC
	D001-D899	Diseases, NEC
(O) OTHER	X100-X599	Diagnostic, Screening and Preventive Module
	T100-T899	Treatment Module
	R100-R700	Test Results Module
	A100-A140	Administrative Module
	<u> </u>	Uncodable Entries Module

APPENDIX C: REASON FOR VISIT CODES INCLUDED IN EACH CATEGORY OF VISIT FOR SKIN HAIR AND NAIL MODULE. TABLE 3.

TYPE OF VISIT

BLISTERS AND OTHER LESIONS

SKIN INFECTIONS (ACNE, BOILS, ETC.)

S830 Acne
S840 Infections Of The Skin
D800 Boil, Abcess, Etc.

CALLUS & OTHER GROWTHS

S855 Other Growths Skin

POISON IVY, RASHES & OTHER

SKIN IRRITATIONS

S860 Skin Rash
S870 Skin Irritation
D825 Other skin diseases

INGROWN NAIL & OTHER NAIL PROBLEMS S885 Symptoms Of Nails

OTHER	SYMPTOMS	& DISEASES OF	D810	Seborrheic Dermetitus
SKIN,	HAIR AND	NAILS	S835	Skin Discoloration
			5880	Other Symptoms Of Skin
		•	5890	Symptoms Of Hair, Scalp
			\$895	O Skin, Nail/Hair
			5875	Swelling Skin
			D805	Impetigo
			D810	Seborrheic Dermatitus
		>	D820	Psoriasis

APPENDIX D: REASON FOR VISIT CODES INCLUDED IN EACH CATEGORY OF VISITS FOR INJURY MODULE. TABLE 4.

TYPE OF VISIT	REASON FOR VISIT CODE	
INSECT BITE	J755	Insect Bite
LOWER EXTREMITIES	1050-1030	Fracture Lower Limb
	J220	Cuts/lower extremity
	J115-J120	Sprn/Strn Back/Ankle
	J220	Cuts/Lower Extremity
	J315	Punct/Lower Extremity
	J420	Abre/Bru Lower Extrem
	J530-J545	Lower Limb Injury Nos
	J715	Burn Extremities
TRUNK	J015	Fracture/Trunk
	J110	Sprn/Strn Back
	J215	Cuts Trunk
•	J415	Abre/Bru Lower Extrem
	J515	Back injury nos
	J520J-525	Chest/Hip Abd Injury
	J710	Burn Trunk

HEAD FACE NECK J005 Fracture Head J105 Sprn/Strn Neck J205-J210 Cut Head/Neck/Face J305 Puncture Head J405 Abra/Bru Head J505-J510 Head/Eye Injury Nos J600 Forgn Bdy/Eye J705 Burn Head Neck OTHER ACCIDENTS & INJURIES Foren Bdy/Sk-tn J610-J620 Sun/Wind Burt .. J760 Animal/Human Bite J800-J820 Accident/Violence J840 Uncons On Arrival J900-J925 Poision/Drug/Alcoh UPPER EXTREMITIES J035-J045 Frac Arm/Wrist/Hand J125 Sprn/Strn Wrist J225 Cuts Upper Extremity J320 Punct Upper Extremity J425 Abra/Bru Upper Extrem J550 Shoulder Inj Nos

J720 Burn Nos

J560 Elbow Inj Nos

J570 Hand Inj Nos

UNSPECIFIED OR MULTIPLE INJURY

J130 Sprn/Strn Nos

J230 Cuts Nos

J325 Puncture Nos

J430 Abra/Bru Nos

J575 Inj Nos Multiple

SPECIFIED JUMP INJURY

1950 Jump Injury Nos

J720 Burn Nos

APPENDIX E: REASON FOR VISIT CODES INCLUDED IN EACH CATEGORY OF VISITS FOR MENTAL HEALTH MODULE, TABLE 5.

TYPE OF VISIT	REASON	FOR VISIT CODE
MARITAL/FAMILY	T705	Marital Problems
	T710	Par/Child Problems
	T715	Other Fam Problems
OCCUPATIONAL, SOCIAL	T700	Econ Problems
ECONOMIC OR EDUCATIONAL	T725	Occupa Problems
	T730	Social Adj Problems
	T740	Other Social Problems
ANXIETY, DEPRESSION	S100	Anx/Bed Nerv Sym
NO SLEEP DISORDERS	5110	Depression Sym
	\$135	Sleep Problems
ANGER, INDENTITY OR	S115	Anger Symptoms
BEHAVIORAL PROBLEM	S120	Identity problem
	S130	Behav Distur Gen

PERSONALITY DISORDERS AND	S160 Psychosex Problems
OTHER PSYCHIATRIC DISORDERS	5165 Other Psych Sym
	D315 Eye Infect/Inflamation
	D330 Appear Of Eyes
DRUG, ALCOHOL	S145 Alcohol Rel Problems
	\$150 Abnorm Drug Use
PSYCHIATRIC EXAM	
ADMINISTRATIVE	A1402 Cmd Psych Exam
	X130 Gen Psych Exam
OTHER REASONS	Codes Not Elsewhere Classif
NO COMPLAINT GIVEN	U9970 No Complaint